Application No.: Amendment Dated: Reply to Office Action of:

comprising:

10/681,086 July 17, 2006 March 17, 2006

AMENDMENTS TO THE CLAIMS

LISTING OF CLAIMS:

Claims 1-22 (cancelled).

Claim 23 (currently amended): A process for decoupling production of a target fermentation product from biomass production in a fermentation medium

(a) providing a recombinantly produced microorganism from the genus

Bacillus that has been engineered to contain a polynucleotide sequence which encodes

biosynthetic enzymes for [[a]] said target fermentation product, the maximal production

of the target fermentation product being dependent on an unlimited supply of a target

fermentation product substrate; and

(b) introducing a mutation causing a biotin [[an]] auxotrophy into the

microorganism to control biomass production and which does not compromise the

ability of the microorganism to produce said target fermentation product, and by limiting

the concentration of a substrate complementing the auxotrophy in the fermentation

medium

(c) supplying the medium with an unlimited amount of substrates required

for the production of said target fermentation product and with a limited amount of biotin

complementing the auxotrophy;

wherein said target fermentation product is selected from the group

consisting of riboflavin, pantothenic acid, thiamin, folic acid, and pyridoxine.

Claim 24 (currently amended): A process according to claim 23 wherein

step (b) comprises introducing a polynucleotide comprising a deletion-insertion mutation

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into the genome of the microorganism to disrupt the microorganism's ability to produce

biotin a compound required for biomass production.

Claim 25 (original): A process according to claim 24 wherein the

polynucleotide comprises deletion-insertion mutations within a bioFDB gene cassette.

A process according to claim 23 wherein the Claim 26 (original):

introducing step comprises transforming the microorganism with a polynucleotide

sequence comprising a bioFDB deletion-insertion mutation.

A process according to claim 26 comprising Claim 27 (original):

transforming the microorganism with a polynucleotide sequence comprising SEQ ID

NO:1.

Claim 28 (original): A process according to claim 27 further comprising

selecting for transformation of the microorganism.

Claim 29 (original): A process according to claim 28 wherein selecting for

the transformation comprises selecting for antibiotic resistance.

Claim 30 (original): A process according to claim 29 wherein selecting for

the transformation comprises selecting for neomycin resistance.

Claim 31 (original): A process according to claim 23 wherein the target

fermentation product is riboflavin.

Claim 32 (original): A production microorganism made by the process of

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claim 23.

Claims 33-40 (cancelled).

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